QC ABSTRACT

NAME OF WORK: Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
8	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	6 set /101-150 cum	137.11	12	12
10	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	59.43	10	10
11	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.81	2	2

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12	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
13	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
14	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test			

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 16-05-20

Lab ID	:	**CP-2020-09-16-54**
Project Name	:	Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4
Agency	:	Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64
Customer's Reference	:	EE(Project)/Ynk Zone/WO/157/2019-20
Date of Receipt	:	13-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	14-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Sig.....
Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-09-16-54** **Date: 11-06-20**

Project Name : Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/157/2019-20

Date of Receipt : 13-05-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 14-05-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Date: 15-05-20

Lab ID	:	**CP-2020-09-16-54**
Project Name	:	Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4
Agency	:	Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64
Customer's Reference	:	EE(Project)/Ynk Zone/WO/157/2019-20
Date of Receipt	:	13-05-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-09-16-58 Date: 16.09.20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	--
4	Bulk Density(Loose) (Kg/l)	1.56	--
5	Bulk Density(Compacted) (Kg/l)	1.59	--
6	Water Absorption(%)	0.23	--

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-09-16-54** **Date: 15-05-20**

Project Name : Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64

Customer Reference : EE(Project)/Ynk Zone/WO/157/2019-20

Date of Receipt : 13-05-20

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 13-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	278	278	5.6	94.4	90-100
3	10 mm	2754	3032	60.6	39.4	25-55
4	4.75 mm	1754	4786	95.7	4.3	0-10
5	Pan	214	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-09-16-54** **Date: 15-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 15-05-20

Lab ID	:	**CP-2020-09-16-54**
Project Name	:	Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4
Agency	:	Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64
Customer's Reference	:	EE(Project)/Ynk Zone/WO/157/2019-20
Date of Receipt	:	13-05-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	13-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-09-16-54**

Date: 15-05-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 11-06-20

Lab ID	:	**CP-2020-09-16-54**
Project Name	:	Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4
Agency	:	Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64
Customer's Reference	:	EE(Project)/Ynk Zone/WO/157/2019-20
Date of Receipt	:	08-06-20
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	08-06-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	201	202	16160	33.895	2097.5	2015.6	Not less than 1800Kg/m^3
2	398	202	198	15918	32.691	2053.6		
3	403	203	202	16525	31.325	1895.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2020-09-16-54

Date: 11-06-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	203	203	
2	403	200	202	
3	400	200	202	
4	403	203	200	
5	402	203	202	
6	402	201	200	
7	403	201	203	
8	402	201	202	
9	403	199	203	
10	401	201	203	
11	399	199	203	
12	403	203	203	
13	402	199	203	
14	400	200	199	
15	401	200	203	
16	402	202	200	
17	402	199	200	
18	399	202	203	
19	402	202	200	
20	400	203	200	
Average of 20	**402**	**201**	**202**	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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Lab ID : CP-2020-09-16-54

Date: 11-06-20

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	203	81395	421.6	5.2	5.3
2	403	200	80633	407.9	5.1	
3	400	200	80102	446.8	5.6	
4	403	203	81629	433.7	5.3	
5	402	203	81543	411.5	5.0	
6	402	201	80984	427.2	5.3	
7	403	201	80970	448.6	5.5	
8	402	201	80917	443.6	5.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-09-16-54 **Date: 14-07-20**

Project Name : Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/157/2019-20

Date of Receipt : 10-07-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 10/07/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2020-09-16-54 **Date: 17-08-20**

Project Name : Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/157/2019-20

Date of Receipt : 12-08-20

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 12/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

h ID	:	CP-2020-09-16-54 **Date: 10/06/2020**
oject Name	:	Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4
gency	:	Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64
stomer's Reference	:	EE(Project)/Ynk Zone/WO/157/2019-20
te of Receipt	:	05-06-20
stomer ID	:	Column Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M25 / 7 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	10/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	03/06/2020	10/06/2020	149.32 X 150.60 X 151.78	22487	8.606	532.4	23.7	22.7
2	Column Concrete	M25	03/06/2020	10/06/2020	150.97 X 151.74 X 150.92	22907	9.032	504.8	22.0	
3	Column Concrete	M25	03/06/2020	10/06/2020	149.75 X 150.41 X 149.01	22524	8.661	504.5	22.4	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-16-54 **Date: 01/07/2020**

Project Name : Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/157/2019-20

Date of Receipt : 05-06-20

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	03/06/2020	01/07/2020	150.04 X 151.82 X 149.65	22778	8.890	621.7	27.3	27.4
2	Column Concrete	M25	03/06/2020	01/07/2020	151.13 X 149.06 X 149.13	22526	8.705	587.9	26.1	
3	Column Concrete	M25	03/06/2020	01/07/2020	149.27 X 150.49 X 150.08	22463	8.659	643.8	28.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-16-54 **Date: 06/07/2020**

Project Name : Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/157/2019-20

Date of Receipt : 01-07-20

Customer ID : PCC for SWD Sides

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC for SWD Sides	M15	29/06/2020	06/07/2020	151.07 X 151.17 X 151.25	22837	**8.819**	292.0	12.8	12.4
2	PCC for SWD Sides	M15	29/06/2020	06/07/2020	150.70 X 149.41 X 150.83	22516	**8.223**	276.3	12.3	
3	PCC for SWD Sides	M15	29/06/2020	06/07/2020	149.34 X 150.19 X 150.84	22430	**8.312**	269.5	12.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-16-54 Date: 27/07/2020

Project Name : Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/157/2019-20

Date of Receipt : 01-07-20

Customer ID : PCC for SWD Sides

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC for SWD Sides	M15	29/06/2020	27/07/2020	151.07 X 150.85 X 150.01	22790	8.313	391.4	17.2	17.5
2	PCC for SWD Sides	M15	29/06/2020	27/07/2020	150.58 X 149.34 X 149.75	22488	8.362	395.6	17.6	
3	PCC for SWD Sides	M15	29/06/2020	27/07/2020	151.99 X 150.68 X 149.32	22902	8.513	404.7	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-16-54 Date: 13/07/2020

Project Name : Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/157/2019-20

Date of Receipt : 08-07-20

Customer ID : PCC Above SWD Sides

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC Above SWD Sides	M15	06/07/2020	13/07/2020	150.29 X 151.13 X 149.18	22714	8.819	285.9	12.6	12.6
2	PCC Above SWD Sides	M15	06/07/2020	13/07/2020	149.30 X 150.13 X 150.74	22415	8.223	286.2	12.8	
3	PCC Above SWD Sides	M15	06/07/2020	13/07/2020	149.37 X 150.72 X 151.70	22513	8.312	283.1	12.6	

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